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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,523	08/07/2006	Yoshitaka Sugawara	925-348	9576
23117 NIXON & VAN	7590 02/26/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	TRAN, TAN N		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
		2826		
			MAIL DATE	DELIVERY MODE
			02/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)						
Office Action Comments	10/588,523	SUGAWARA, YOSHITAKA						
Office Action Summary	Examiner	Art Unit						
	TAN N. TRAN	2826						
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Responsive to communication(s) filed on <u>07 A</u>	_							
	s action is non-final.							
3) Since this application is in condition for allowa		osecution as to the merits is						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application	ı <b>.</b>							
·—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) <u>1-11</u> are subject to restriction and/or	election requirement.							
Application Papers								
9) ☐ The specification is objected to by the Examine	ar							
10) The drawing(s) filed on is/are: a) acc		Examiner						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119								
12)  Acknowledgment is made of a claim for foreign	n priority under 35 LLS C & 110(a)	L(d) or (f)						
a) All b) Some * c) None of:	i priority under 33 0.3.C. § 119(a)	<i>y</i> -(d) 01 (1).						
, ,	to have been received							
		on No						
2. Certified copies of the priority document								
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) ☐ Notice of Informal F							
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	6) Other:	атоп Арриовион						
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**Election/Restrictions** 

1. This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack unity of invention because they are not so linked as

to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species 1, Figs. 1,6, depicts a cross-sectional view of a mesa-structure SiC PIN diode,

which is the wide-gap semiconductor device of a first embodiment of the

invention.

Species 2, Fig. 2 depicts a cross-sectional view of a planar-structure SiC PIN diode,

which is the wide-gap semiconductor device of a second embodiment of the invention.

Species 3, Fig. 3 depicts a cross-sectional structure of a mesa-structure SiC GTO, which

is the wide-gap semiconductor device of a third embodiment of the invention.

Species 4, Fig. 4 depicts a cross-sectional view of a mesa-structure SiC MOSFET, which

is the wide-gap semiconductor device of a fourth embodiment of the invention

The species are independent or distinct because claims to the different species recite the

mutually exclusive characteristics of such species. In addition, these species are not obvious

variants of each other based on the current record.

2. Applicant is required to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

3. Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAN N. TRAN whose telephone number is (571) 272-1923. The examiner can normally be reached on 8:30-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **PURVIS SUE** can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or

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access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TT

Feb 2008

/Evan Pert/ Primary Examiner, Art Unit 2826 Application Number

Application/Control No.	Applicant(s)/Patent under Reexamination		
10/588,523	SUGAWARA, Y	JGAWARA, YOSHITAKA	
Examiner	Art Unit		
TANN TOAN	2826		